# Exhibit 300: Capital Asset Plan and Business Case Summary

### Part I: Summary Information And Justification (All Capital Assets)

## Section A: Overview (All Capital Assets)

1. Date of Submission: 4/10/2009

2. Agency: Department of Energy

3. Bureau: National Nuclear Security Administration

4. Name of this Capital Asset: NNSA STA Transportation Command and Control System

5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.)

019-05-01-11-01-1040-00

6. What kind of investment will this be in FY 2010? (Please NOTE: Investments moving to O&M in FY 2010, with Planning/Acquisition activities prior to FY 2010 should not select O&M. These investments should indicate their current status.)

Mixed Life Cycle

7. What was the first budget year this investment was submitted to OMB?

FY2001 or earlier

8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:

The STA (TCCS) specifically supports NNSA long-term strategic goals.

9. Did the Agency's Executive/Investment Committee approve this request?

Yes

a. If "yes," what was the date of this approval?

8/21/2008

10. Did the Project Manager review this Exhibit?

Yes

11. Contact information of Program/Project Manager?

Name Lindstrom, Aaron
Phone Number 505-845-4163

Email alindstrom@doeal.gov

a. What is the current FAC-P/PM (for civilian agencies) or DAWIA (for defense agencies) certification level of the

Waiver Issued

program/project manager?b. When was the Program/Project Manager Assigned?

c. What date did the Program/Project Manager receive the

FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification?

10/1/2004 9/8/2009

12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project?

Yes

a. Will this investment include electronic assets (including computers)?

Yes

b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)

No

2. If "yes," will this investment meet sustainable design principles?

3. If "yes," is it designed to be 30% more energy efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives?

Yes

If "yes," check all that apply: Expanded E-Government

a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)

The program has made progress in achieving its strategic goals by leveraging technology in order to consolidate redundant systems while meeting increased transport

Collaboration: The TCCS supports the Presidential e-Gov initiative of collaboration and reuse by utilizing currently existing GIS applications, data and correlating tools. Additionally, the underlying system architecture and data structures present in the system databases rely on existing products, data models, and software.

14. Does this investment support a program assessed using Yes the Program Assessment Rating Tool (PART)? (For more information about the PART, visit www.whitehouse.gov/omb/part.)

a. If "yes," does this investment address a weakness found during a PART review?

Nο

b. If "yes," what is the name of the PARTed program?

c. If "yes," what rating did the PART receive? Moderately Effective

15. Is this investment for information technology?

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Level 2 Guidance)

17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? investment (per CIO Council PM Guidance)

(1) Project manager has been validated as qualified for this

18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2008 Yes

agency high risk report (per OMB Memorandum M-05-23) 19. Is this a financial management system?

No

a. If "yes," does this investment address a FFMIA compliance area?

No

1. If "yes," which compliance area:

Not applicable

2. If "no," what does it address?

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2010 funding request for the following? (This should total 100%)

Hardware 10 Software 10 Services 80

Other

21. If this project produces information dissemination Nο products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?

22. Contact information of individual responsible for privacy related questions:

Name Clark, Kelly 505-845-6141 Phone Number

Title OST Legal Representative

E-mail kclark@doeal.gov

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?

Yes

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO

# Section B: Summary of Spending (All Capital Assets)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS) (Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)										
	PY-1 and earlier	PY 2008	CY 2009	BY 2010	BY+1 2011	BY+2 2012	BY+3 2013	BY+4 and beyond	Total	
Planning:	5.242	0.985	0.5	0.6	1.15	1.19	1.23	1.016	11.913	
Acquisition:	2.51	0.493	0.25	0.3	0.57	0.59	0.61	0.508	5.831	
Subtotal Planning & Acquisition:	7.752	1.478	0.75	0.9	1.72	1.78	1.84	1.524	17.744	
Operations & Maintenance:	17.244	3.448	1.75	2.1	4.03	4.16	4.28	3.556	40.568	
TOTAL:	24.996	4.926	2.50	3.0	5.75	5.94	6.12	5.080	58.312	
Government FTE Costs should not be included in the amounts provided above.										
Government FTE Costs	0.359	0.083	0.087	0.091	0	0	0	0	0.620	
Number of FTE represented by Costs:	0	0	0	0	0	0	0	0	0	

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

- 2. Will this project require the agency to hire additional FTE's?
  - a. If "yes," How many and in what year?
- 3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes: No changes are made to the summary of spending. All system milestones have remained on track.

No

## Section C: Acquisition/Contract Strategy (All Capital Assets)

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

Contracts/Ta	ontracts/Task Orders Table: * Costs in millions														* Co	sts in millions
Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	been	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/	End date of Contract/	Total Value of Contract/ Task Order (\$M)	Interagenc y	Is it performanc e based? (Y/N)		What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)		Does the contract include the required security & privacy clauses? (Y/N)	Name of CO	CO Contact information	Contracting Officer FAC-C or	assigned has the competenci es and skills
94AL85000	Overall SNL (22423.007 \$M) has specific contract dollars for TCCS (34.902 \$M)	Yes	10/15/1993				No	Yes	Yes	NA	No	Yes	JoAnn Ĺ	4096 / jwright@doe al.gov	,	Yes
	M & O	No	10/1/2009	10/1/2009	9/30/2013	23.41	No	Yes	Yes	NA	No	Yes	JoAnn L	505-845- 4096 / jwright@doe al.gov	N/A	Yes

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

OST does not use Earned Value for project oversight. Rather, we rely on an operational analysis approach to oversight. Specifically, OST uses WBS for each project and all projects in this investment are managed and reported from a performance-based management standpoint. The program management structure provides a mechanism for monitoring costs and schedule in a way that is linked to planned and actual performance goals and measures. Requirements are reviewed monthly to assess system performance and determine enhancement needs. This set of changes is managed through the OST Information Technology Management Board. If issues are identified then corrective action plans are identified and implemented with the contractors. Planned vs. actual cost and schedule performance, as well as operational performance metrics, are reviewed, updated, and published at least monthly by project teams. Programmatic reviews are held quarterly by the investment sponsors to review performance metrics as well as planned vs. actual cost and schedule performance. An important element of this program is our commitment to external benchmarking and independent assessment to validate and verify our performance goals and actual performance metrics. OST has successfully achieve over 95 percent of project milestones in the last several years.

The primary contract is for system design and maintenance that is accomplished with a task order under the M& O contract. Service contracts are negotiated for hardware and software maintenance support. The SNL contract (and correlating statements of work) is performance based. The work SNL performs is heavily vested in Research and Development (R&D), and extremely difficult to accurately project costs. Variables such as the DBT, mission priorities, security regulations, and cyber threats drastically and quickly (e.g. without notice) affect costs and the allocation of funding.

3. Do the contracts ensure Section 508 compliance?

a. Explain why not or how this is being done?

No

System operation duties have specific job requirements that eliminate Section 508 compliance. The Human Reliability Program is one such requirement. Due to the complexity and uniqueness of the STA Program, 508 compliance has been waived by the President of the United State of America due to the physical demands of Federal Agents who assist in the transportation of nuclear materials and components.

4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements?

Yes

a. If "yes," what is the date?

10/1/2004

1. Is it Current?

Yes

- b. If "no," will an acquisition plan be developed?
  - 1. If "no," briefly explain why:

# Section D: Performance Information (All Capital Assets)

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov. The table can be extended to include performance measures for years beyond the next President's Budget.

Performance In	formation Table							
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2006			Service Coverage		operational (due to the sensitive nature of the subject, additional information can not be provided in this	communicaiton channels	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).
2006		Mission and Business Results	Transportation	Ground Transportation	All convoys successfully tracked per SOP (due to the	All convoys successfully tracked per SOP (due to the	All convoys successfully tracked per SOP (due to the	All convoys successfully tracked per SOP (due to the

Performance Ir	erformance Information Table									
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results		
	acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.				sensitive nature of the subject, additional information can not be provided in this document).	sensitive nature of the subject, additional information can not be provided in this document).	sensitive nature of the subject, additional information can not be provided in this document).	sensitive nature of the subject, additional information can not be provided in this document).		
2006	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	System sustainment and development costs come in at or under budget	0 - 5% cost variance	0 - 5% cost variance	Cost variance falls within range.		
2006	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.	Technology	Reliability and Availability	Availability	System Accreditation to operate	Zero (0) days of system unavailability due to lack of cyber security accreditation.	Zero (0) days of system unavailability due to lack of cyber security accreditation.	Zero (0) days of system unavailability due to lack of cyber security accreditation.		
2006	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.	Technology	Reliability and Availability	Availability	System Availability		100% system availability (with the exception of planned outages)	100% system availability (with the exception of planned outages) zero (0) unplanned system interuptions.		
2007	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Service Coverage	Frequency and Depth	to the sensitive nature of the subject, additional information can	to the sensitive nature of the subject, additional information can	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).		
2007	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.	Mission and Business Results	Transportation	Ground Transportation	(due to the	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).		
2007	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	System sustainment and development costs come in at or under budget	0 - 5% cost variance	0 - 5% cost variance	Cost variance falls within range.		
2007	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of	Technology	Reliability and Availability	Availability	System Accreditation to operate	Zero (0) days of system unavailability due to lack of cyber security	Zero (0) days of system unavailability due to lack of cyber security	Zero (0) days of system unavailability due to lack of cyber security		

Performance Ir	nformation Table				and Control S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.					accreditation.	accreditation.	accreditation.
2007	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability	System Availability		100% system availability (with the exception of planned outages)	100% system availability (with the exception of planned outages) zero (0) unplanned system interuptions.
2008	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Service Coverage	Frequency and Depth	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).	All communication channels operational (due to the sensitive nature of the subject, additional information can not be provided in this document).
2008	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Transportation	Ground Transportation	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).	All convoys successfully tracked per SOP (due to the sensitive nature of the subject, additional information can not be provided in this document).
2008	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Financial (Processes and Activities)	Savings and Cost Avoidance	System sustainment and development costs come in at or under budget	0 - 5% cost variance	0 - 5% cost variance	As of 9/30/08 - Cost variance falls within range.
2008	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability	System Accreditation to operate	Zero (0) days of system unavailability due to lack of cyber security accreditation.	Zero (0) days of system unavailability due to lack of cyber security accreditation.	As of 9/30/08 - Zero (0) days of system unavailability due to lack of cyber security accreditation.
2008	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability	System Availability		100% system availability (with the exception of planned outages)	As of 9/30/08 - 100% system availability (with the exception of planned outages) zero (0) unplanned system interuptions.
2009	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and	Customer Results	Service Coverage	Frequency and Depth				

Performance Ir	Exhibit 300: NNSA STA Transportation Command and Control System (Revision 15)  erformance Information Table										
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results			
	radiological materials for use in weapons of mass destruction and other acts of terrorism.	ı									
2009	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Transportation	Ground Transportation							
2009	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Financial (Processes and Activities)	Savings and Cost Avoidance							
2009	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability							
2009	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability							
2010	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Service Coverage	Frequency and Depth							
2010	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Transportation	Ground Transportation							
2010	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	0.020 AM						

Performance Ir	Exhibit 300: NNSA STA Transportation Command and Control System (Revision 15)  Cerformance Information Table										
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results			
	materials for use in weapons of mass destruction and other acts of terrorism.	ı									
2010	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability							
2010	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability							
2011	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Service Coverage	Frequency and Depth							
2011	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Transportation	Ground Transportation							
2011	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Financial (Processes and Activities)	Savings and Cost Avoidance							
2011	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability							
2011	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use		Reliability and Availability	Availability							

	Strategic						1	
Fiscal Year	Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	in weapons of mass destruction and other acts of terrorism.							
2012	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Service Coverage	Frequency and Depth				
2012	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Transportation	Ground Transportation				
2012	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Financial (Processes and Activities)	Savings and Cost Avoidance				
2012	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability				
2012	GOAL 2.2 Weapons of Mass Destruction Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.		Reliability and Availability	Availability				

# Section E: Security and Privacy (IT Capital Assets only)

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

- 1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment?:
- 2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment?

3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):									
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned C&A update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)						
Transportation Command and Control System 5.0									

4. Operational Sys	4. Operational Systems - Security Table:										
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)		Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Completed: Security Control Testing	Date the contingency plan tested				
Transportation Command and Control Systems 4.0											

- 5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG?
- a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process?
- 6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses?
- a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.
- 7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above?

(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
Transportation Command and Control Systems 4.0	No	No	No, because the system does not contain or process personal identifying information.	No	This system is not a Privacy Act system of records.
Transportation Command and Control Systems 5.0	No	No	No, because the system does not contain or process personal identifying information.		This system is not a Privacy Act system of records.

8. Planning & Operational Systems - Privacy Table:									
(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation				

why the PIA has not been publicly posted or why the PIA has not been conducted.

Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.

Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

# Section F: Enterprise Architecture (EA) (IT Capital Assets only)

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

Yes

1. Is this investment included in your agency's target Yes enterprise architecture?

a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy?

a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

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b. If "no," please explain why?

3. Is this investment identified in a completed and approved segment architecture?

a. If "yes," provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect. For detailed guidance regarding segment architecture codes, please refer to http://www.egov.gov.

110-000

Nο

4. Service Component Reference Model (SRM) Table:
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
Property / Asset Management		Back Office Services		Property / Asset Management	Activity-Based Management		No Reuse	5
Meta Data Management	Provide for the usage, processing and general administration of unstructured information.	Back Office Services	Data Management	Meta Data Management			No Reuse	5
Legacy Integration	Support the communication between newer generation hardware/softwa re applications and the previous, major generation of hardware/softwa re applications	Back Office Services	Development and Integration	Legacy Integration			No Reuse	5
		Business Analytical Services	Business Intelligence				No Reuse	15

#### 4. Service Component Reference Model (SRM) Table:

Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov.

etc.). Provide this	illiorillation in th	I	lowing table. For	detailed guidance			i to nitp://www.e	gov.gov.
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
OLAP	Support the analysis of information that has been summarized into multidimensional views and hierarchies	Business Analytical Services	Reporting	OLAP			No Reuse	5
Standardized / Canned	Support the use of pre-conceived or pre-written reports	Business Analytical Services	Reporting	Standardized / Canned	Document Referencing		No Reuse	5
Risk Management	Support the identification and probabilities or chances of hazards as they relate to a task, decision or long-term goal; includes risk assessment and risk mitigation and	Business Management Services	Management of Processes	Risk Management			No Reuse	10
Logistics and Transportation	Provide for efficient freight and traffic management	Business Management Services	Supply Chain Management	Logistics and Transportation	Travel Management		No Reuse	15
Alerts and Notifications	Allow a customer to be contacted in relation to a subscription or service of interest	Customer Services	Customer Preferences	Alerts and Notifications	Customer Analytics		No Reuse	15
Process Tracking	Allow the monitoring of activities within the business cycle	Process Automation Services	Tracking and Workflow	Process Tracking			No Reuse	5
Audit Trail Capture and Analysis	Support the identification and monitoring of activities within an application, system, or network	Support Services	Security Management	Audit Trail Capture and Analysis	Auditing		No Reuse	5
		Support Services	Security Management				No Reuse	10

- a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.
- b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.
- c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.
- d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

5. Technical Reference Model (TRM) Table:
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and
Service Specifications supporting this IT investment

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Standardized / Canned	Component Framework	Business Logic	Platform Independent Technologies	
Meta Data Management	Component Framework	Data Interchange	Data Exchange	
OLAP	Component Framework	Data Management	Reporting and Analysis	
OLAP	Component Framework	Data Management	Reporting and Analysis	

5. Technical Reference Model (TRM) Table:
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

Service Specifications supportin	g this IT investment.			Complete Constitution (1)
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Decision Support and Planning	Component Framework	Data Management	Reporting and Analysis	
	Component Framework	Security		
	Component Framework	Security		
	Component Framework	Security		
	Component Framework	Security		
OLAP	Component Framework	User Presentation / Interface	Content Rendering	
OLAP	Component Framework	User Presentation / Interface	Content Rendering	
Meta Data Management	Component Framework	User Presentation / Interface	Static Display	
Logistics and Transportation	Service Access and Delivery	Access Channels	Other Electronic Channels	
Logistics and Transportation	Service Access and Delivery	Access Channels	Other Electronic Channels	
Logistics and Transportation	Service Access and Delivery	Delivery Channels	Intranet	
	Service Access and Delivery	Service Requirements		
Audit Trail Capture and Analysis	Service Access and Delivery	Service Transport	Supporting Network Services	
Audit Trail Capture and Analysis	Service Access and Delivery	Service Transport	Supporting Network Services	
Legacy Integration	Service Interface and Integration	Integration	Enterprise Application Integration	
Legacy Integration	Service Interface and Integration	Integration	Middleware	
Legacy Integration	Service Interface and Integration	Integration	Middleware	
Legacy Integration	Service Interface and Integration	Integration	Middleware	
Legacy Integration	Service Interface and Integration	Integration	Middleware	
Legacy Integration	Service Interface and Integration	Integration	Middleware	
Alerts and Notifications	Service Interface and Integration	Interface	Service Description / Interface	
Meta Data Management	Service Interface and Integration	Interoperability	Data Format / Classification	
Meta Data Management	Service Interface and Integration	Interoperability	Data Types / Validation	
Meta Data Management	Service Platform and Infrastructure	Database / Storage	Database	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Risk Management	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	
Risk Management	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Legacy Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Property / Asset Management	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	
Decision Support and Planning	Service Platform and Infrastructure	Software Engineering	Modeling	
Process Tracking	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	

#### 5. Technical Reference Model (TRM) Table:

To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

Service Specifications supporting	ng triis 11 mivestment.			
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Process Tracking	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	
Process Tracking	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	
Process Tracking	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	
Risk Management	Service Platform and Infrastructure	Software Engineering	Test Management	
Risk Management	Service Platform and Infrastructure	Software Engineering	Test Management	
Risk Management	Service Platform and Infrastructure	Software Engineering	Test Management	
Risk Management	Service Platform and Infrastructure	Software Engineering	Test Management	
Risk Management	Service Platform and Infrastructure	Software Engineering	Test Management	
Legacy Integration	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Legacy Integration	Service Platform and Infrastructure	Support Platforms	Independent Platform	

- a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications
- b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.
- 6. Will the application leverage existing components and/or applications across the Government (i.e., USA.gov, Pay.Gov, etc)?
  - a. If "yes," please describe.

OST will investigate e-Authentication solutions in the high assurance authentication category. The forecasted approach is to conduct preliminary research the requisite technology in FY08 and begin procuring, testing, and implementing in FY09.

## Exhibit 300: Part II: Planning, Acquisition and Performance Information

# Section A: Alternatives Analysis (All Capital Assets)

Part II should be completed only for investments identified as "Planning" or "Full Acquisition," or "Mixed Life-Cycle" investments in response to Question 6 in Part I, Section A above.

In selecting the best capital asset, you should identify and consider at least three viable alternatives, in addition to the current baseline, i.e., the status quo. Use OMB Circular A-94 for all investments and the Clinger Cohen Act of 1996 for IT investments to determine the criteria you should use in your Benefit/Cost Analysis.

1. Did you conduct an alternatives analysis for this project?

a. If "yes," provide the date the analysis was completed? 6/27/2006

b. If "no," what is the anticipated date this analysis will be completed?  $\footnote{\cite{complete}}$ 

c. If no analysis is planned, please briefly explain why:

An alternatives analysis is currently being executed for this investment. Results of this analysis will be available in Q3 of FY09.

2. Alternative Analysis Results: Use the results of your alternatives and	alysis to complete the following table:		* Costs in millions
Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate

- 3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen?
- a. What year will the investment breakeven? (Specifically, 2009 when the budgeted costs savings exceed the cumulative costs.)
- 4. What specific qualitative benefits will be realized?

This TCCS facilitates more efficient use of human and information technology resources by consolidating redundant systems, information and data management activities. Additionally, significant gains in productivity are realized due to enhanced system capabilities and functionalities. As an enterprise investment, the TCCS initiative is also expected to provide economies of scale. Note: OST asserts that the majority of the benefits that have been derived by the TCCS (more efficient use of human and IT resources, enhanced data quality, ability to improve/modify systems quickly as requirements and technology change, etc.,) are qualitative and difficult to quantify.

5. Federal Quantitative Ben What specific quantitative bend	<b>efits</b> efits will be realized (using curren	t dollars) Use the results of you	r alternatives analysis to comple	ete the following table:
	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
PY - 1 2007 & Prior				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
PY 2008				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
CY 2009				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.

5. Federal Quantitative Bene			, , , , , , , , , , , , , , , , , , ,	
What specific quantitative benef	its will be realized (using curren  Budgeted Cost Savings	t dollars) Use the results of you  Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
BY 2010				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
BY + 1 2011				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
BY + 2 2012				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
BY + 3 2013				The Legacy System requires significant workaround costs to try to meet current operating requirements and faces obsolescence. Redesigned system is upgraded to avoid the cost of these workaround and meet-exceed current requirements.
BY + 4 2014 & Beyond				
Total LCC Benefit			LCC = Life-cycle Cost	

- 6. Will the selected alternative replace a legacy system in-part No or in-whole?
- a. If "yes," are the migration costs associated with the migration to the selected alternative included in this investment, the legacy investment, or in a separate migration investment?
  - b. If "yes," please provide the following information:

5b. List of Legacy Investment or Systems						
Name of the Legacy Investment of Systems	UPI if available	Date of the System Retirement				

# Section B: Risk Management (All Capital Assets)

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

1. Does the investment have a Risk Management Plan? Yes

a. If "yes," what is the date of the plan? 4/2/2008

b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?

No

c. If "yes," describe any significant changes:

The TCCS operates under the purview of a robust Risk Management Plan that habitually evaluates the inherent risk(s) of operational decisions on the OST mission and correlating technical architecture(s). This Risk Management Plan is formally

documented via the TCCS Risk Assessment (latest update 4/2/08) and supporting project meetings.

2. If there currently is no plan, will a plan be developed?

- a. If "yes," what is the planned completion date?
- b. If "no," what is the strategy for managing the risks?

3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule:

The TCCS operates under the purview of a robust Risk Management Plan that habitually evaluates the inherent risk(s) of operational decisions on the OST mission and correlating technical architecture(s). This Risk Management Plan is formally documented.

# Section C: Cost and Schedule Performance (All Capital Assets)

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

- 1. Does the earned value management system meet the Criteria in ANSI/EIA Standard-748?
- 2. Is the CV% or SV% greater than +/- 10%? (CV%= CV/EV x No 100; SV%= SV/PV x 100)
  - a. If "yes," was it the CV or SV or both?
  - b. If "yes," explain the causes of the variance:
  - c. If "yes," describe the corrective actions:
- 3. Has the investment re-baselined during the past fiscal year? No
- a. If "yes," when was it approved by the agency head?

## 4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

	Trany initestone no longer active		l Baseline		Cur	rent Baseline		Current Baseline Variance		
Milestone	Description of Milestone	Planned Completion	Total Cost (\$M)	-	tion Date ld/yyyy)	Total	Cost (\$M)	Schedule	6.4 (410)	Percent
Number		Date (mm/dd/yyy y)	Estimated	Planned	Actual	Planned	Actual	(# days)	Cost (\$M)	Complete
0	TCCS FY 2005 and Prior	9/30/2005	\$15.530000	9/30/2005	9/30/2005	\$15.530000	\$15.530000	0	\$0.000000	100%
1	Sustainment of the TCCS	9/30/2006	\$2.500000	9/30/2006	9/30/2006	\$2.500000	\$2.500000	0	\$0.000000	100%
2	Support and R&D: database, infrastructure, facilities, admin, operations, base technology	9/30/2006	\$1.120000	9/30/2006	9/30/2006	\$1.120000	\$1.120000	0	\$0.000000	100%
3	Installation of TCCS upgrade 3.2	3/30/2006	\$0.240000	3/30/2006	3/30/2006	\$0.240000	\$0.240000	0	\$0.000000	100%
4	Installation of TCCS upgrade 4.0	9/30/2006	\$0.730000	9/30/2006	9/30/2006	\$0.730000	\$0.730000	0	\$0.000000	100%
5	FY2007 TCCS O&M	9/30/2007	\$3.413000	9/30/2007	9/30/2007	\$3.413000	\$3.413000	0	\$0.000000	100%
6	Initial planning for upgrade 5.0	9/30/2007	\$0.975000	9/30/2007	9/30/2007	\$0.975000	\$0.975000	0	\$0.000000	100%
7	Preliminary acquisition for upgrade 5.0	9/30/2007	\$0.488000	9/30/2007	9/30/2007	\$0.488000	\$0.488000	0	\$0.000000	100%
8	FY2008 TCCS O&M	9/30/2008	\$3.448000	9/30/2008	9/30/2008	\$3.448000	\$3.448000	0	\$0.000000	100%
9	Final planning for upgrade 5.0	9/30/2008	\$0.985000	9/30/2008	9/30/2008	\$0.985000	\$0.985000	0	\$0.000000	100%
10	Final acquisition for upgrade 5.0	9/30/2008	\$0.493000	9/30/2008	9/30/2008	\$0.493000	\$0.493000	0	\$0.000000	100%
11	FY2009 TCCS O&M	9/30/2009	\$3.486000	9/30/2009		\$1.750000	\$0.875000		\$0.000000	50%
12	Initial planning for upgrade 6.0	9/30/2009	\$0.996000	9/30/2009		\$0.500000	\$0.250000		\$0.000000	50%
13	Preliminary acquisition for upgrade 6.0	9/30/2009	\$0.498000	9/30/2009		\$0.250000	\$0.125000		\$0.000000	50%
14	FY2010 TCCS O&M	9/30/2010	\$3.920000	9/30/2010		\$2.100000				0%
15	Final planning for upgrade 6.0	9/30/2010	\$1.120000	9/30/2010		\$0.600000				0%
16	Final acquisition for upgrade 6.0	9/30/2010	\$0.560000	9/30/2010		\$0.300000				0%
17	FY2011 TCCS O&M	9/30/2011	\$4.030000	9/30/2011		\$4.030000				0%
18	FY2011 planning for future upgrades	9/30/2011	\$1.150000	9/30/2011		\$1.150000				0%
19	FY2011 acquisition for future upgrades	9/30/2011	\$0.570000	9/30/2011		\$0.570000				0%

## 4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

		Initial Baseline			Current Baseline				<b>Current Baseline Variance</b>	
Milestone Number	Description of Milestone	Planned Completion	Total Cost (\$M)		tion Date d/yyyy)	Total Co	ost (\$M)	Schedule	Coal (AN)	Percent
Number		•	Date (mm/dd/yyy y)	Ectimated	Planned	Actual	Planned	Actual	(# days)	Cost (\$M)
20	FY2012 TCCS O&M	9/30/2012	\$4.160000	9/30/2012		\$4.160000				0%
21	FY2012 planning for future upgrades	9/30/2012	\$1.190000	9/30/2012		\$1.190000				0%
22	FY2012 acquisition for future upgrades	9/30/2012	\$0.590000	9/30/2012		\$0.590000				0%
23	FY2013 TCCS O&M	9/30/2013	\$4.280000	9/30/2013		\$4.280000				0%
24	FY2013 planning for future upgrades	9/30/2013	\$1.230000	9/30/2013		\$1.230000				0%
25	FY2013 acquisition for future upgrades	9/30/2013	\$0.610000	9/30/2013		\$0.610000				0%
26	FY2014 TCCS O&M					\$3.556000				0%
27	FY2014 planning for future upgrades					\$1.016000				0%
28	FY2014 acquisition for future upgrades					\$0.508000				0%
Project Totals		9/30/2013	\$58.312000	9/30/2013	9/30/2008	\$58.312000	\$31.172000	1826	\$0.001595	53.46%